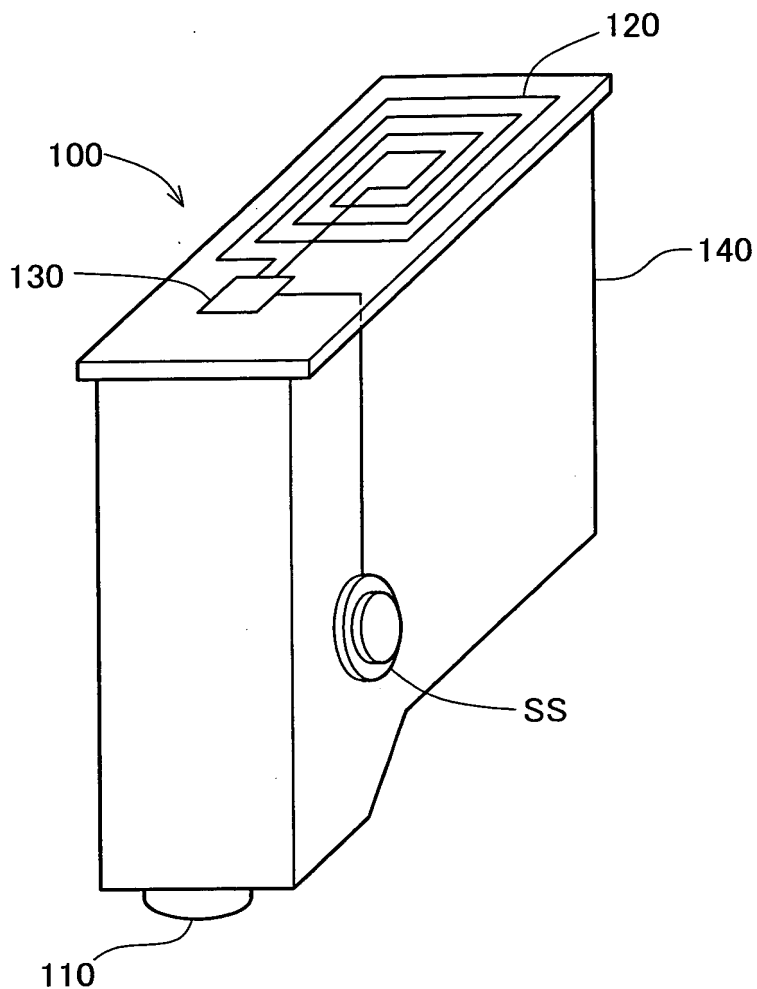


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Fig.1



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Fig.2(a)

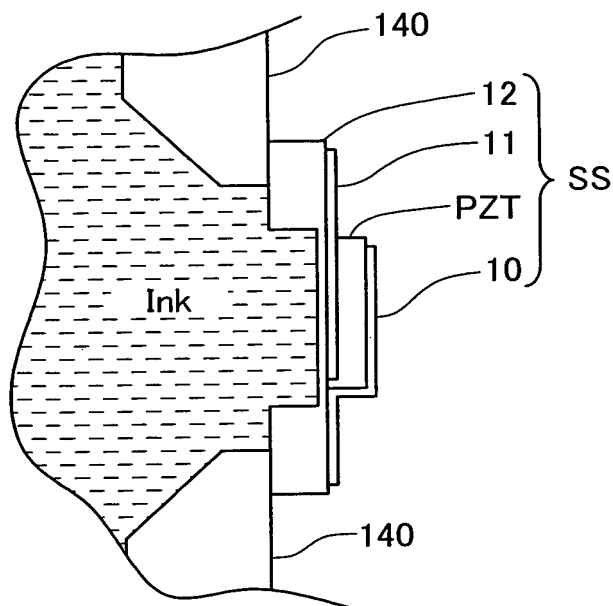


Fig.2(b)

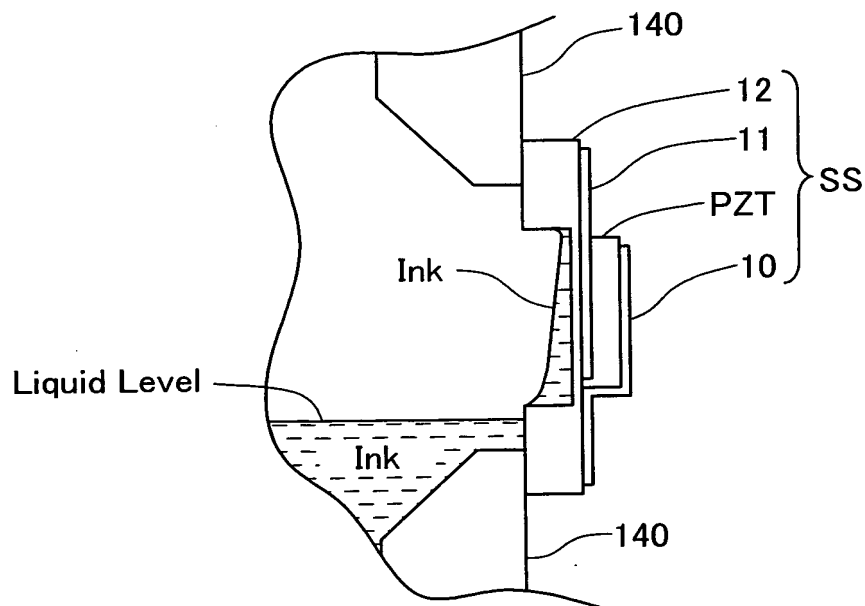


Fig. 3

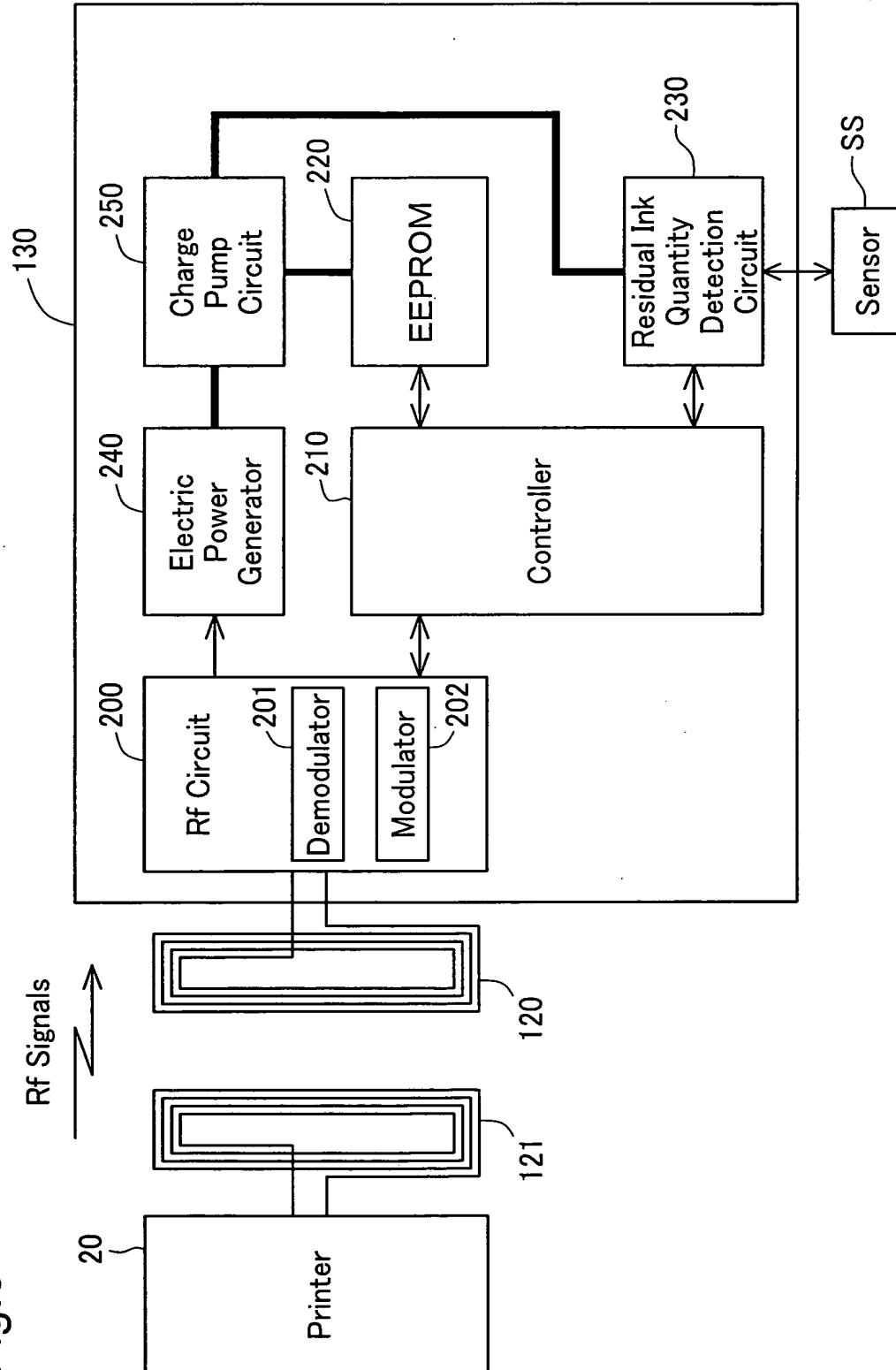
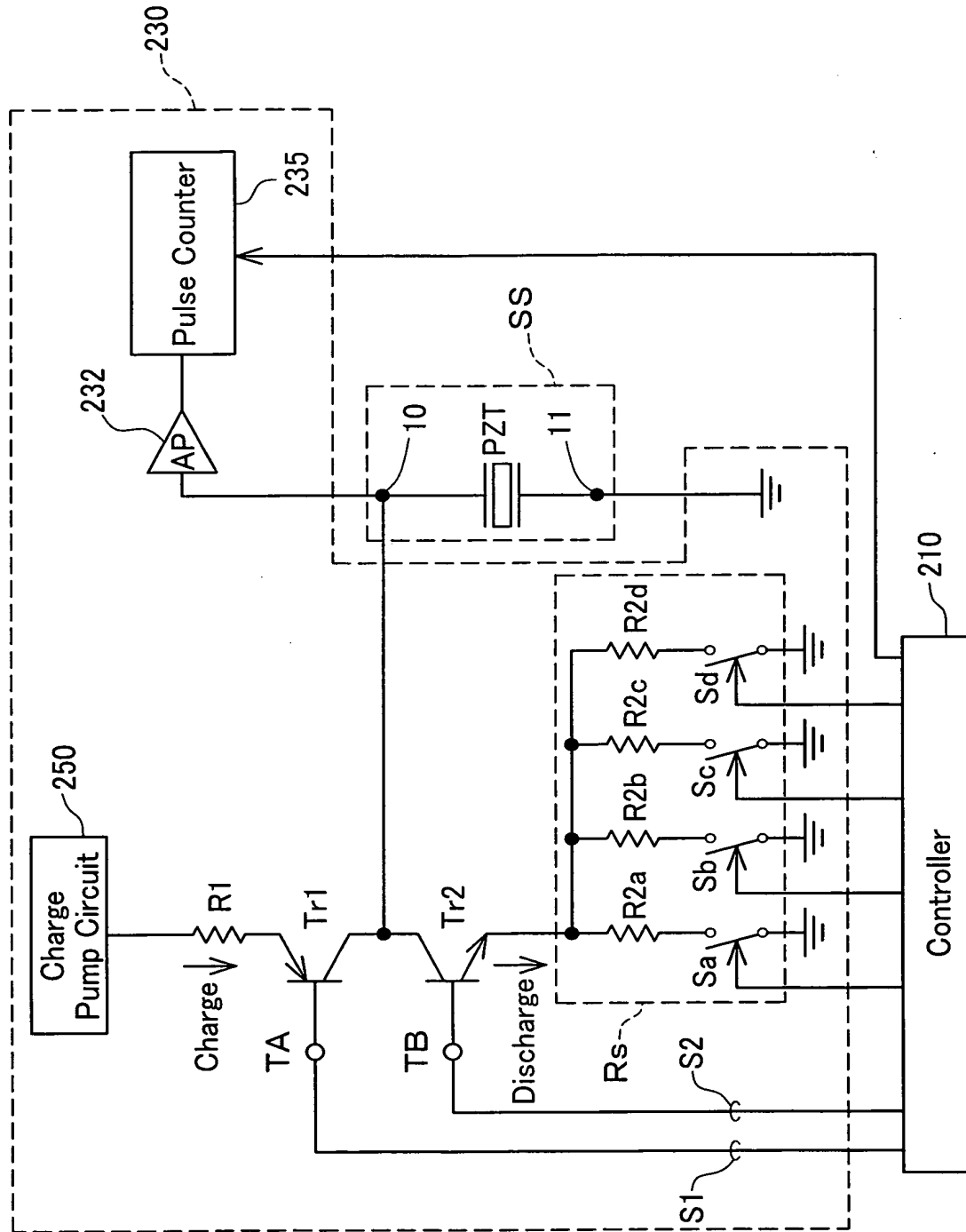
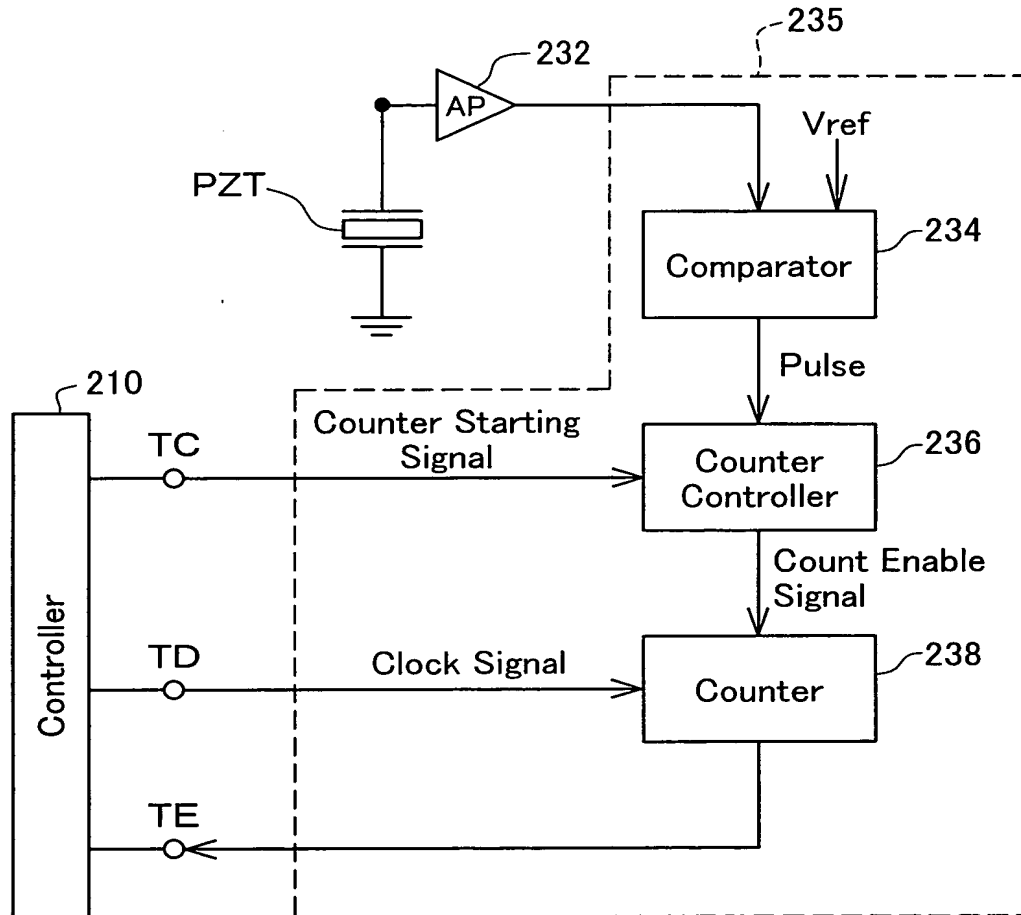


Fig.4



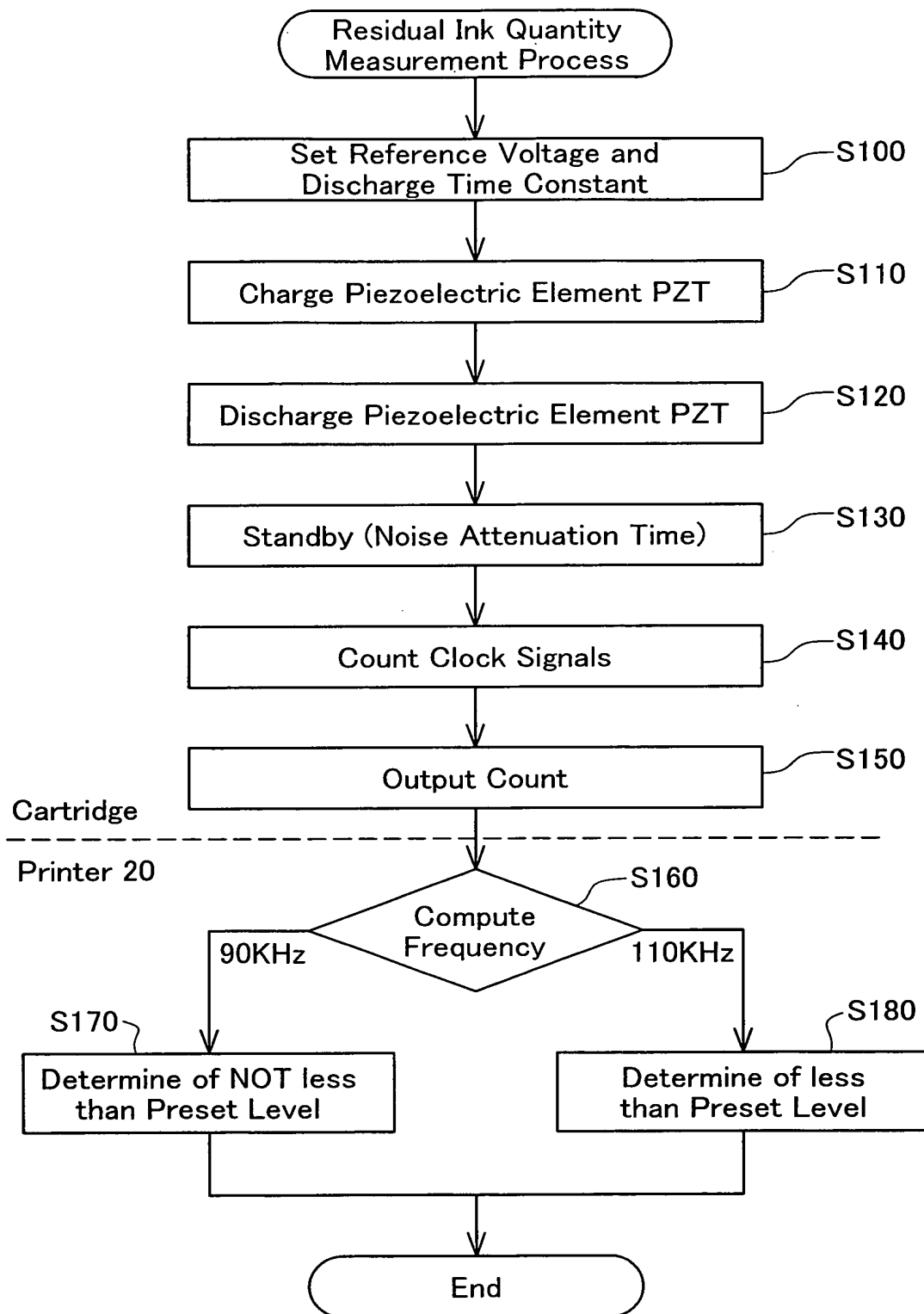
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Fig.5



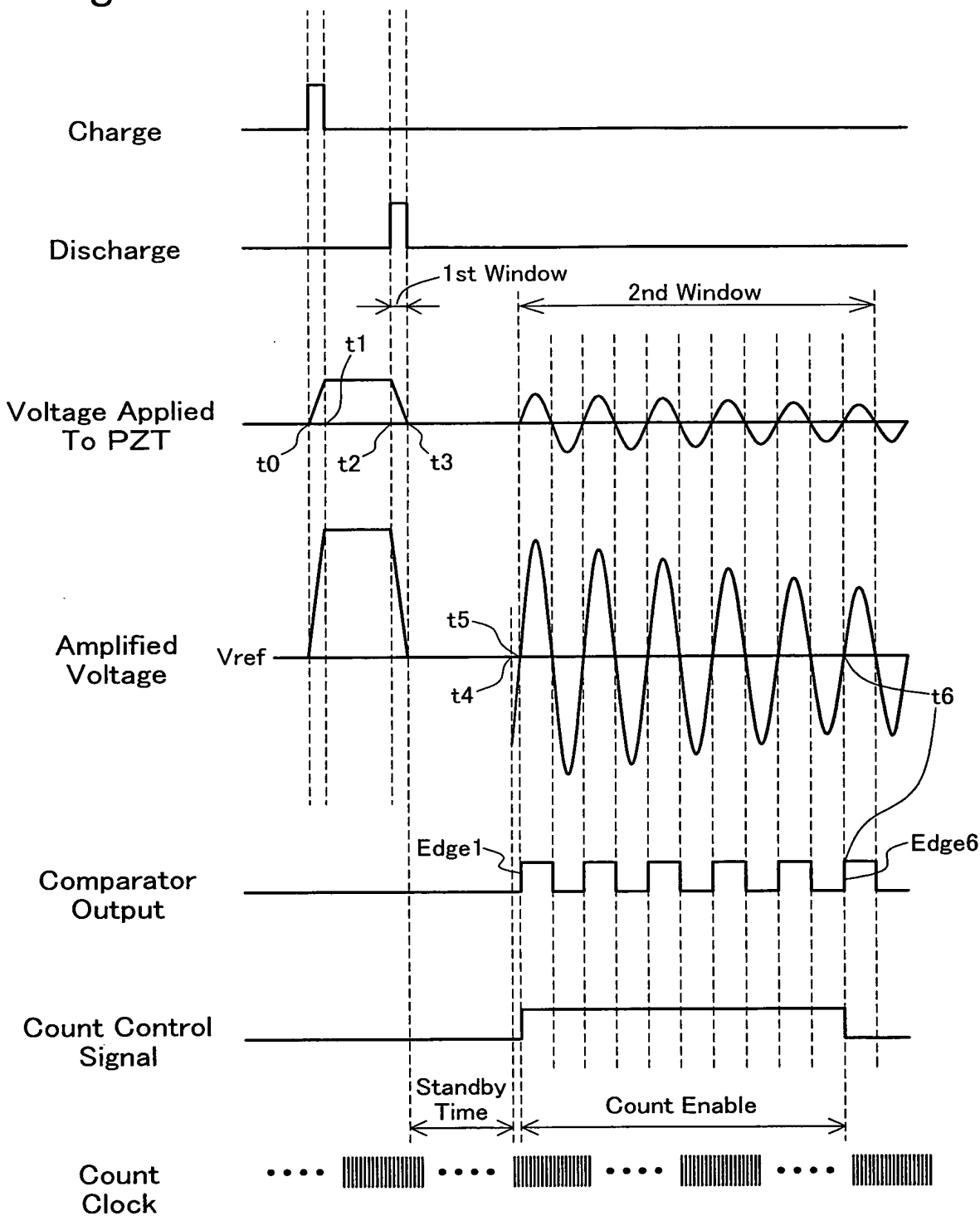
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Fig.6



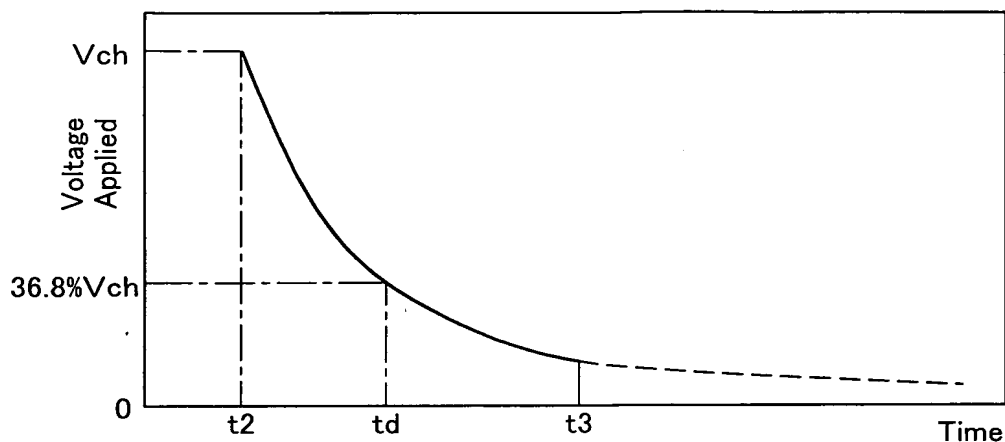
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Fig.7



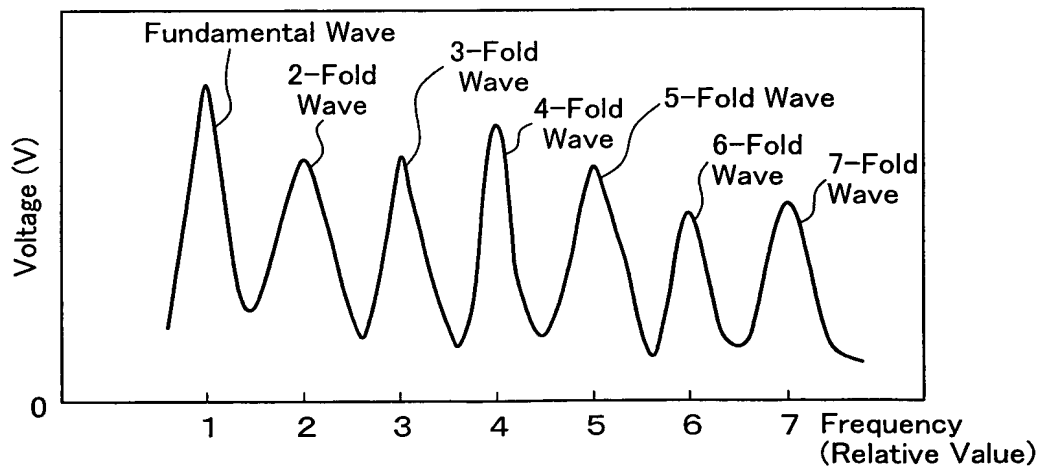
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Fig.8(a)



Applied Voltage Of Piezoelectric Element In Time Domain  
(Discharge Time)

Fig.8(b)

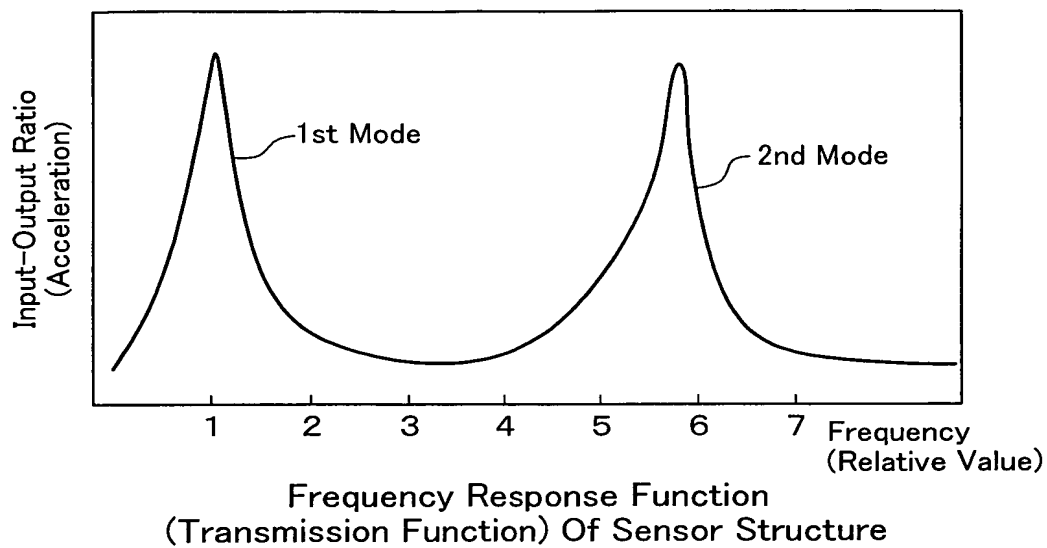


Applied Voltage of Piezoelectric Element  
in Frequency Domain



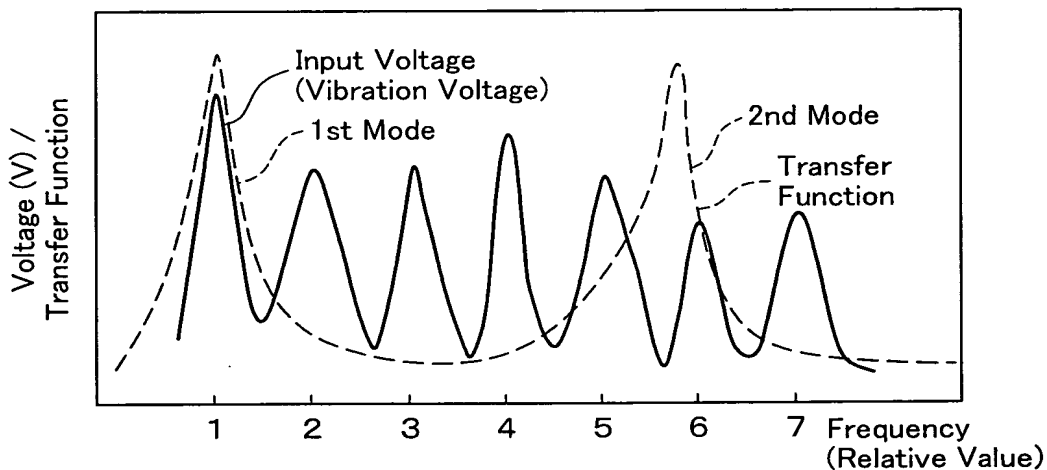
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Fig.9



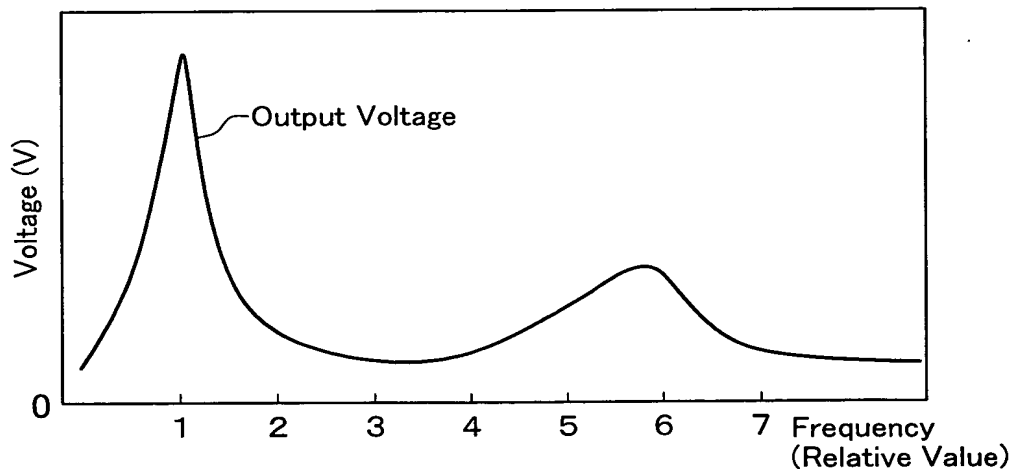
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Fig.10(a)



Vibration Voltage and Transfer Function of Sensor in Frequency Domain

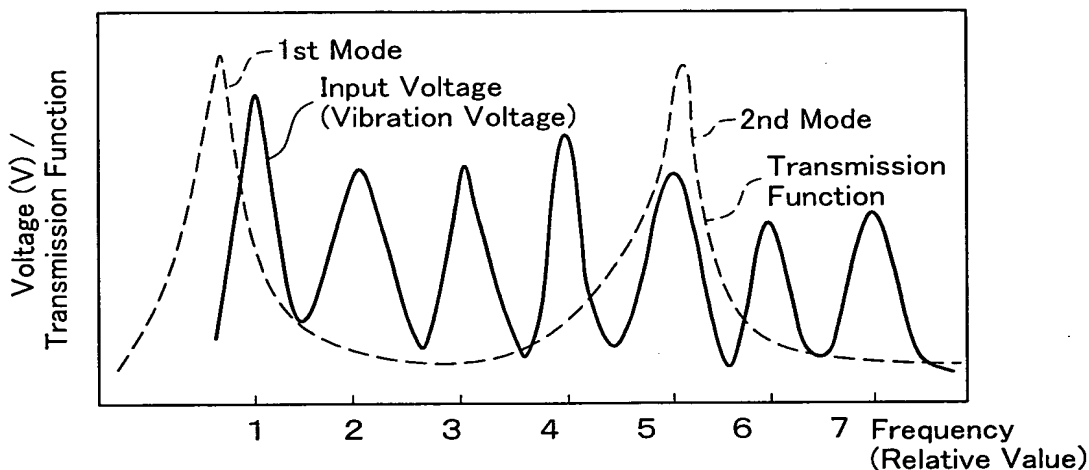
Fig.10(b)



Output Voltage of Sensor in Frequency Domain

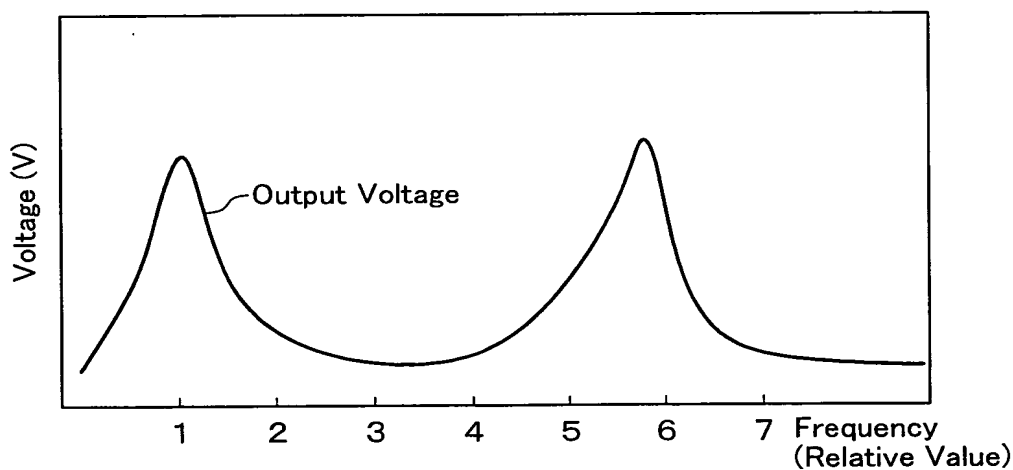
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Fig.11(a)



Vibration Voltage and Transmission Function Of Sensor In Frequency Domain

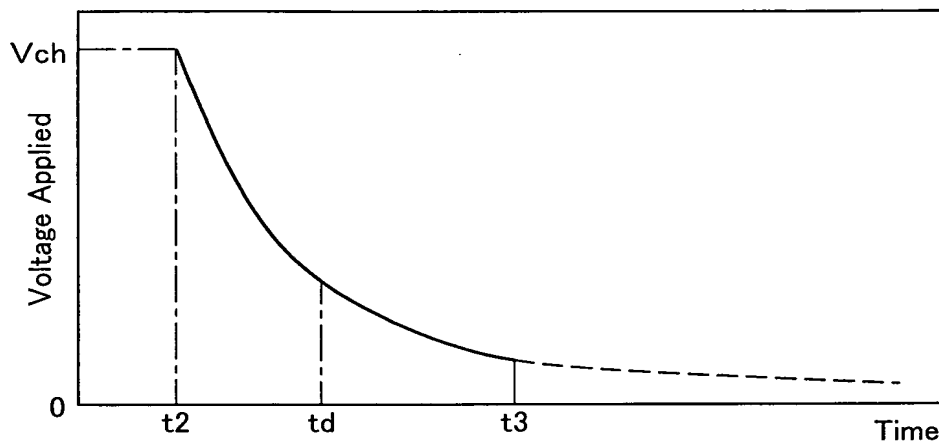
Fig.11(b)



Output Voltage of Sensor In Frequency Domain

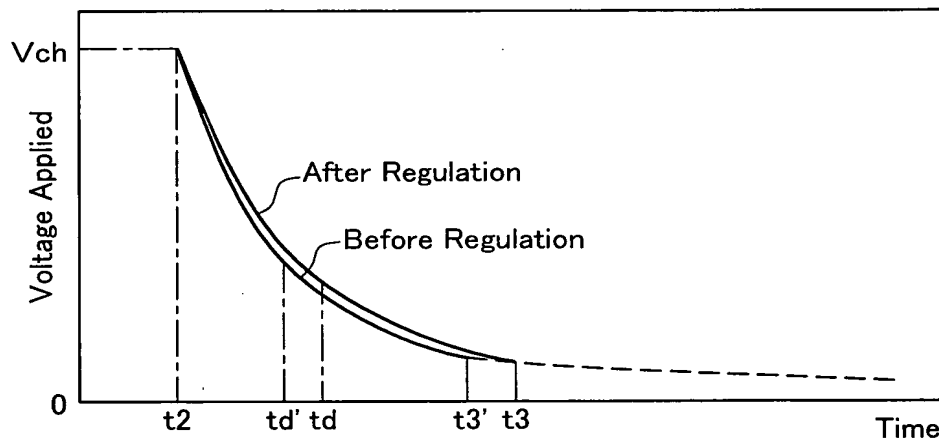
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Fig.12(a)



Applied Voltage of Piezoelectric Element in Time Domain  
 (Discharge Time)

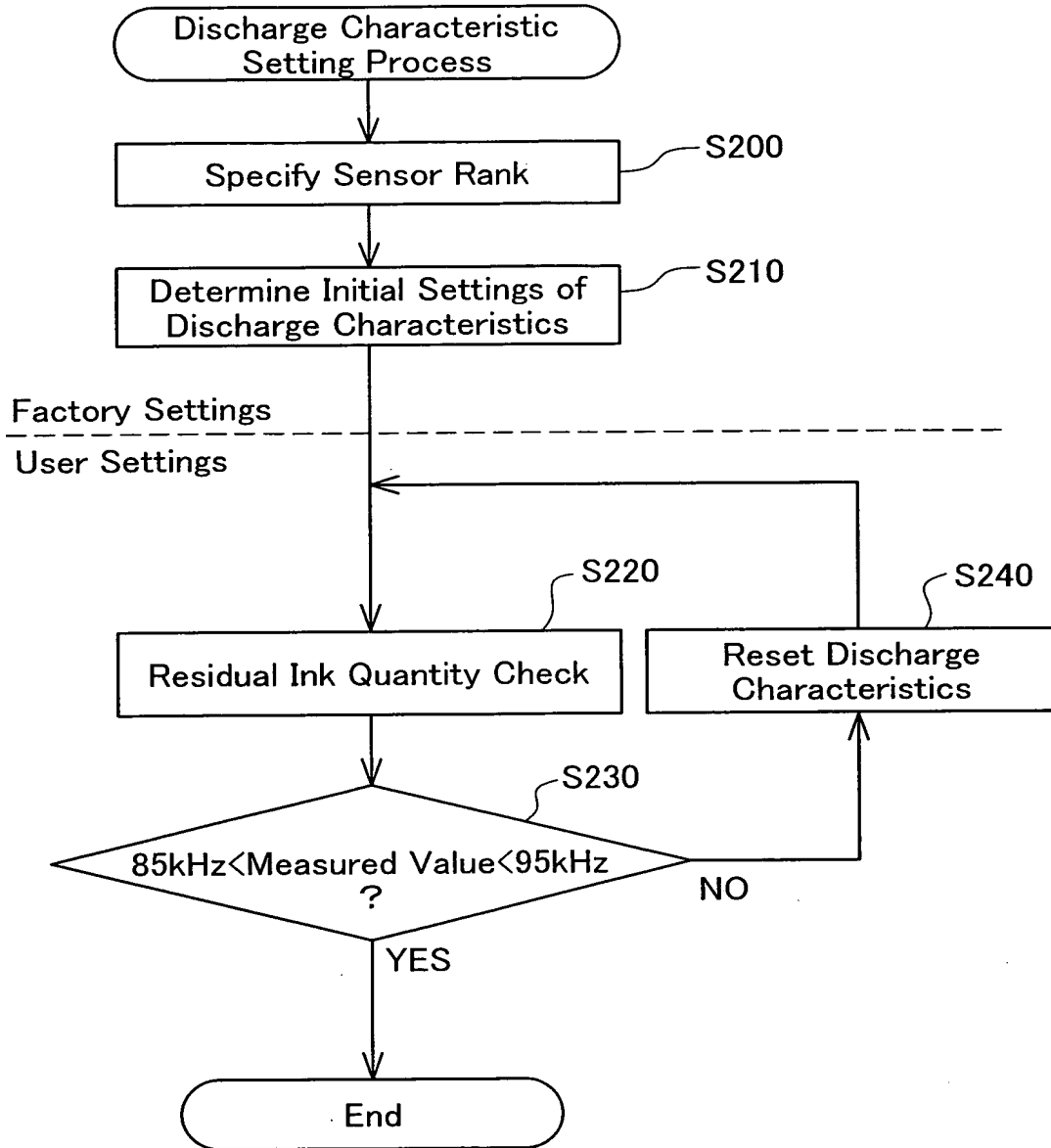
Fig.12(b)



Applied Voltage of Piezoelectric Element in Time Domain  
 (Discharge Time)

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Fig.13



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Fig.14

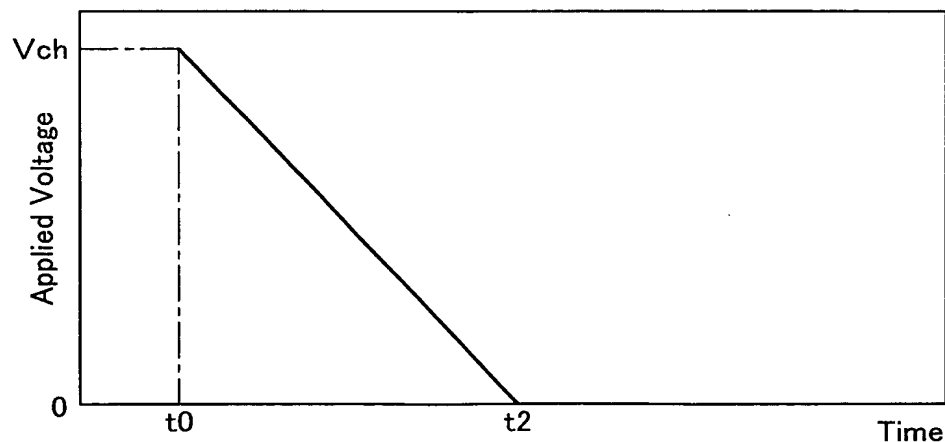
Sensor Rank and Settings in  
Discharge Time Constant Adjustment Resistive Circuit

Sensor Rank	Settings of Switches				Composite Value Of Resistance (Unit: $\Omega$ )
	Sa	Sb	Sc	Sd	
A	ON	ON	ON	ON	53
B	ON	ON	ON	OFF	57
C	ON	ON	OFF	ON	62
D	ON	ON	OFF	OFF	67
E	ON	OFF	ON	ON	73
F	ON	OFF	ON	OFF	80
G	ON	OFF	OFF	ON	89
H	ON	OFF	OFF	OFF	100

$R_a(S_a) : 100 \Omega$   
 $R_b(S_b) : 200 \Omega$   
 $R_c(S_c) : 400 \Omega$   
 $R_d(S_d) : 800 \Omega$

Fig.15

Modified Example



Discharge Waveform in Constant Current Circuit